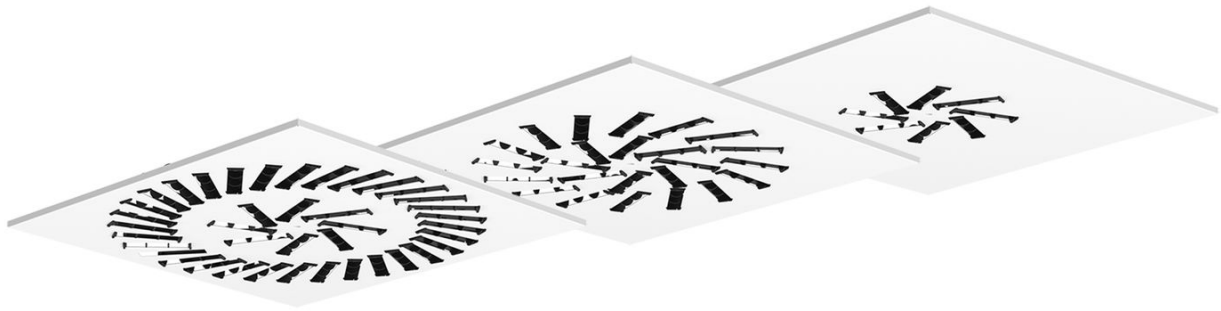


VVKR-A-S
Swirl Diffuser
Handbook



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<u>Description</u>3
<u>Dimensions & Weights</u>7
<u>Ordering Codes</u>9
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Description

VVKR-A-S is a swirl diffuser with individually manually adjustable deflectors for installation in ceilings. It is intended for air supply and eventually can be used for exhaust air. The maximum recommended installation height is 4 m. The field of application are buildings like shopping halls, receptions, or offices.

Highlights

- Simple and safe design, easy installation and handling
- Can be used for extracting air with or without deflectors
- Variable air discharge patterns by deflectors adjustable from outside without tools
- Excellent induction rate also at low air flow volumes
- Supply air temperature can vary from -10K to +10K based on the room air temperature

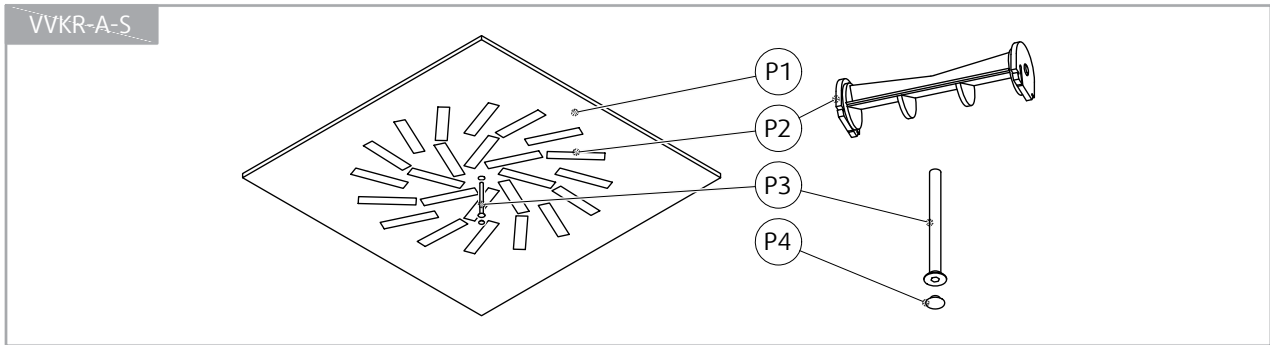
Accessory

- PB-VVK-S: Plenum Box

Design

The VVKR-A-S is made from galvanized steel sheet with powder paint surface finish. The adjustable polymer deflectors are available in black or white colour. In the middle of the diffuser there is a pre-punched hole for front plate screw fixing. A screw with a white decorative cap for its installation is provided together with a self-adhesive seal, which must be adhered at the installation site.

Product Parts



Legend

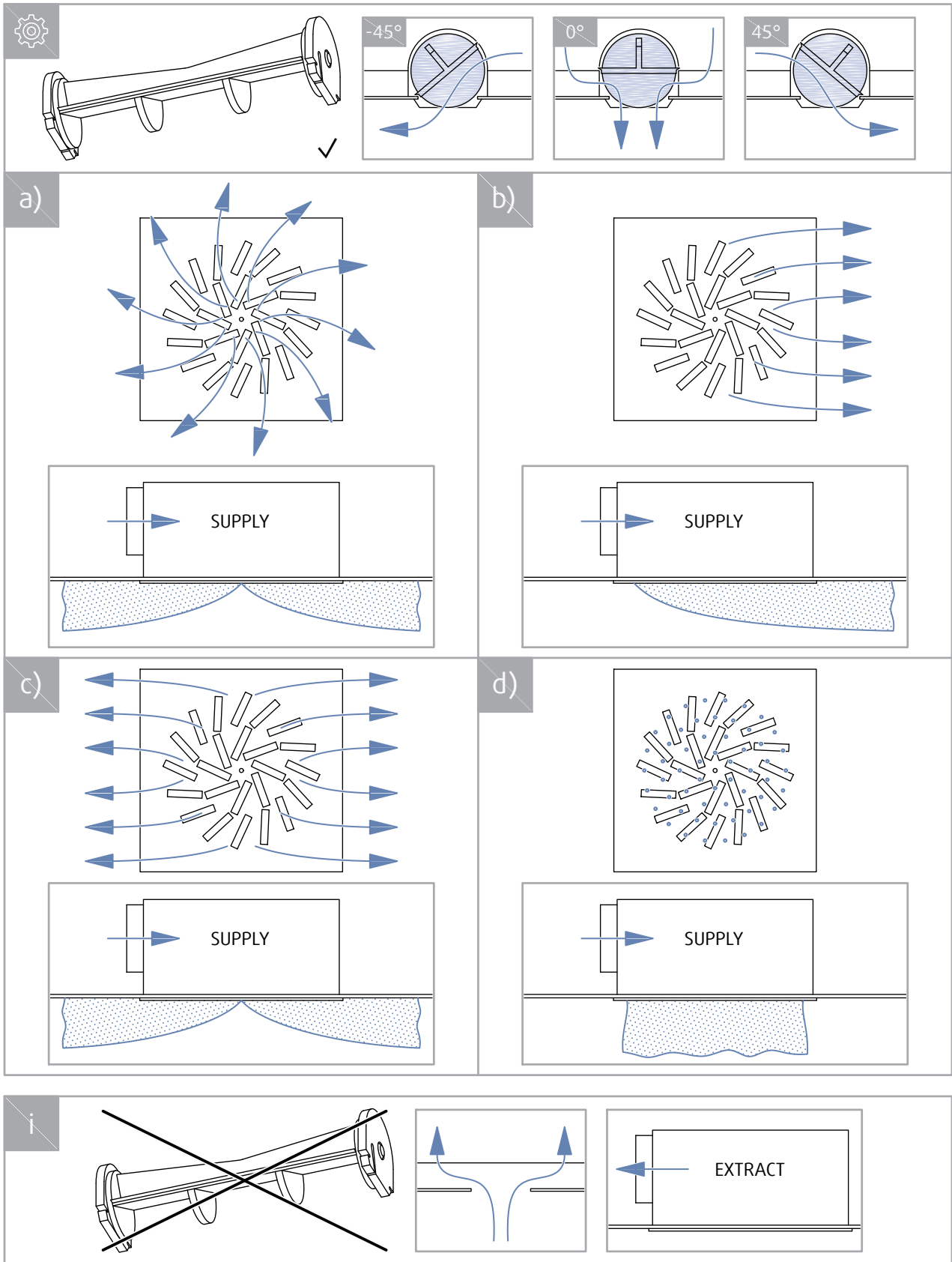
P1 Diffuser plate

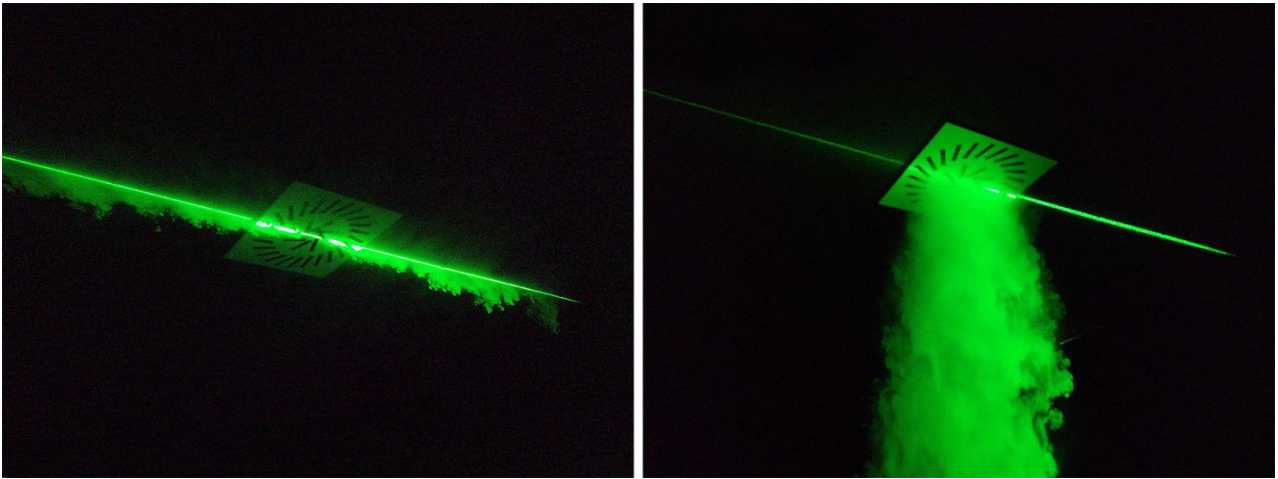
P2 Deflector

P3 Screw M6×70 mm, DIN 7991

P4 Screw cover

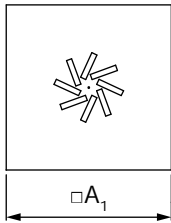
Setup Possibilities



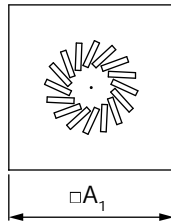


Air flow visualisation of the horizontal and vertical discharge

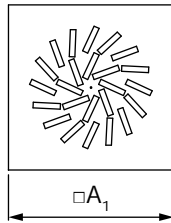
Dimensions & Weights



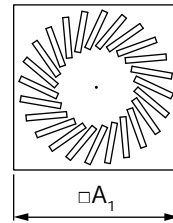
VVKR-A-S-...-8



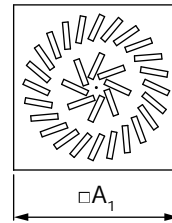
VVKR-A-S-...-16



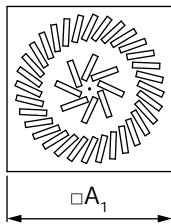
VVKR-A-S-...-24



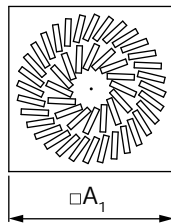
VVKR-A-S-...-24C



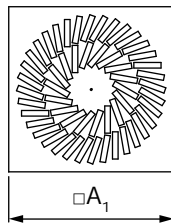
VVKR-A-S-...-32



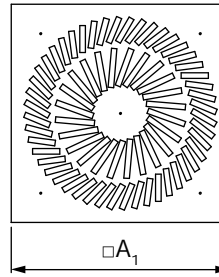
VVKR-A-S-...-40



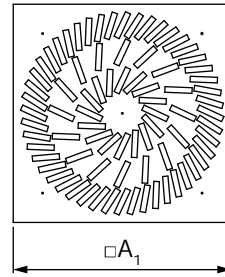
VVKR-A-S-...-48



VVKR-A-S-625-54



VVKR-A-S-800-72



VVKR-A-S-825-80

□A	□A ₁	8 ×	16 ×	24 ×	32 ×	40 ×	48 ×	54 ×	72 ×	80 ×
	mm	kg								
300	296	0,7	-	-	-	-	-	-	-	-
400	396	1,2	1,1	-	-	-	-	-	-	-
500	496	1,9	1,8	1,7	-	-	-	-	-	-
600	596	2,6	2,6	2,5	2,5	2,5	2,4	-	-	-
625	621	2,8	2,8	2,8	2,7	2,7	2,6	2,6	-	-
800	796	-	-	-	-	-	-	-	4,3	-
825	821	-	-	-	-	-	-	-	-	4,6

□A ×	A _v	
	✓	✗
	m ²	
300×8, 400×8, 500×8, 600×8, 625×8	0,00814	0,01714
400×16, 500×16, 600×16, 625×16	0,01628	0,03427
500×24, 600×24, 625×24	0,02443	0,05141
600×24C, 625×24C	0,03690	0,07424
600×32, 625×32	0,03257	0,06854
600×40, 625×40	0,04071	0,08568
600×48, 625×48	0,04885	0,10282
625×54	0,05496	0,11567
825×80	0,08142	0,17136
800×72	0,08575	0,17706

□A	x80					x72				x60			x48		x40		x32		x24		x16		x8				
	PB-VVK-S																										
	300	400	500	600	625	400	500	600	625	500	600	625	600	625	600	625	600	625	600	625	800	825					
300	.																										
400	.	.				.																					
500																	
600						
625
800																					.						
825																										.	

Ordering Codes

Size A × A

300

400

500

600

625

800

825

Number of deflectors

8

16

24

24C

32

40

48

54

64

72

80

Colour of deflectors

B Black

SW Signal white

R Without blades (extract air)

Surface finish

SW Signal white (RAL9003, gloss 30%)

RALXXXX Other RAL colour

Example of the Ordering Code

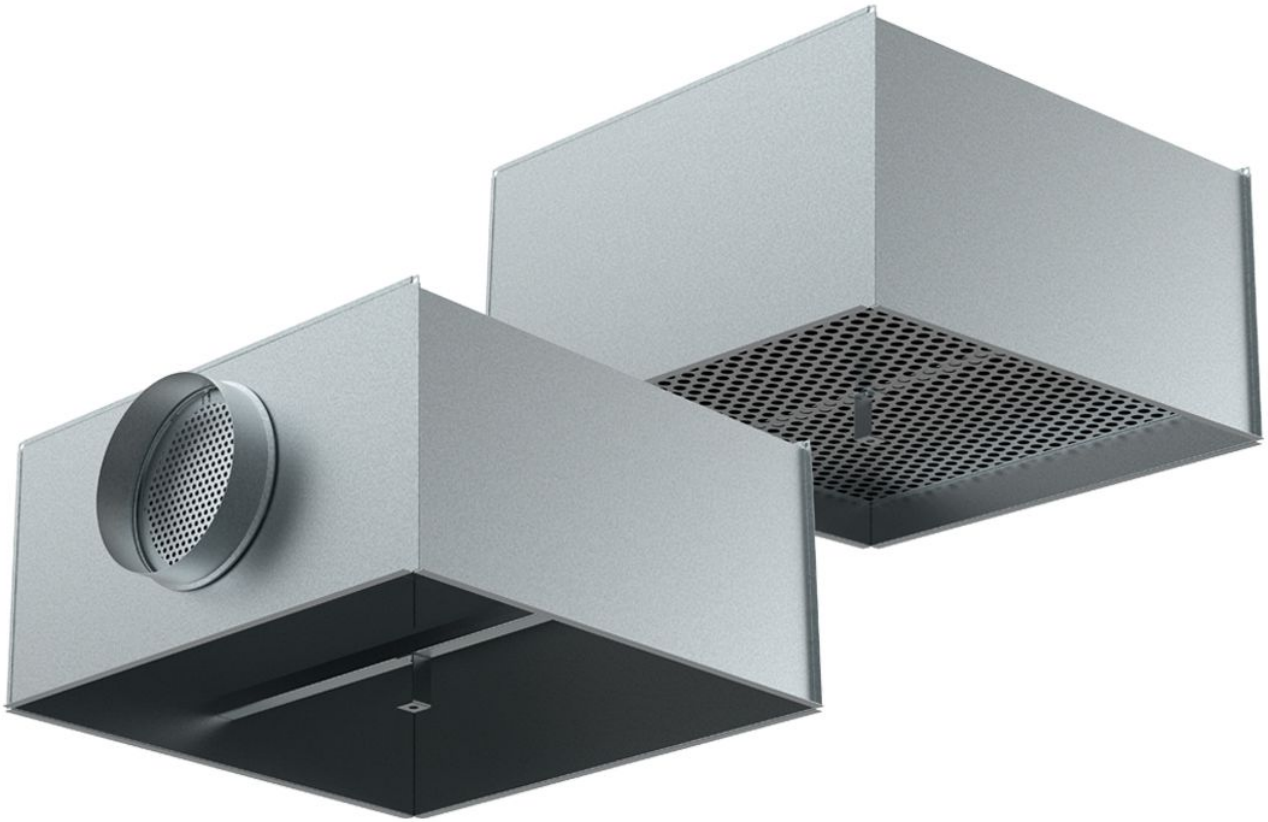
VVKR-A-S-300-8-SW-SW

Swirl diffuser with adjustable deflectors, 300 mm nominal size with 8 deflectors. Deflectors and diffuser plate are signal white (SW).

Accessory

PB-VVK-S

Plenum Box



Description

The PB-VVK-S is square face plenum box with a horizontal or a vertical connection and internal or external insulation.

Design

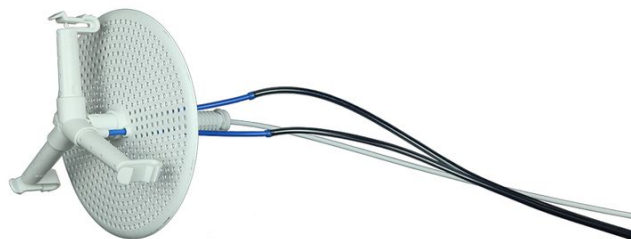
The plenum box is made of galvanized sheet as a standard.

There are 2 types of connection:

- D1: a simple spigot without a seal, with a damper
- D2: a pressed spigot with a seal including the Zeus damper

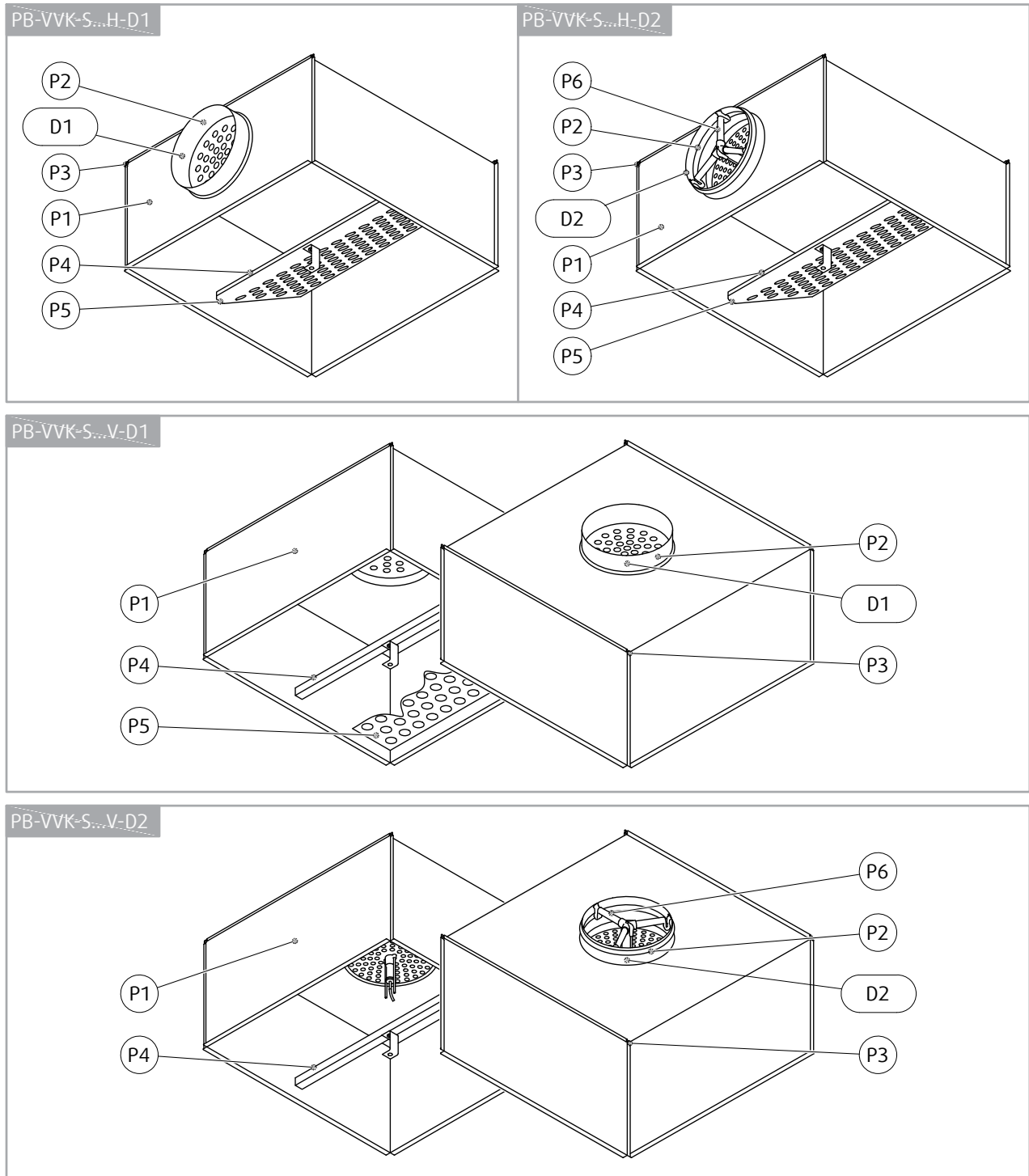
The product can be equipped by 15 mm thick internal insulation and/or 6 mm thick external insulation.

Zeus damper



Zeus is a control damper of the PB-VVK-S...D2 plenum box. It contains impulse tubes for measuring differential pressure using a portable measuring device. It can be adjusted manually using a cable gearing.

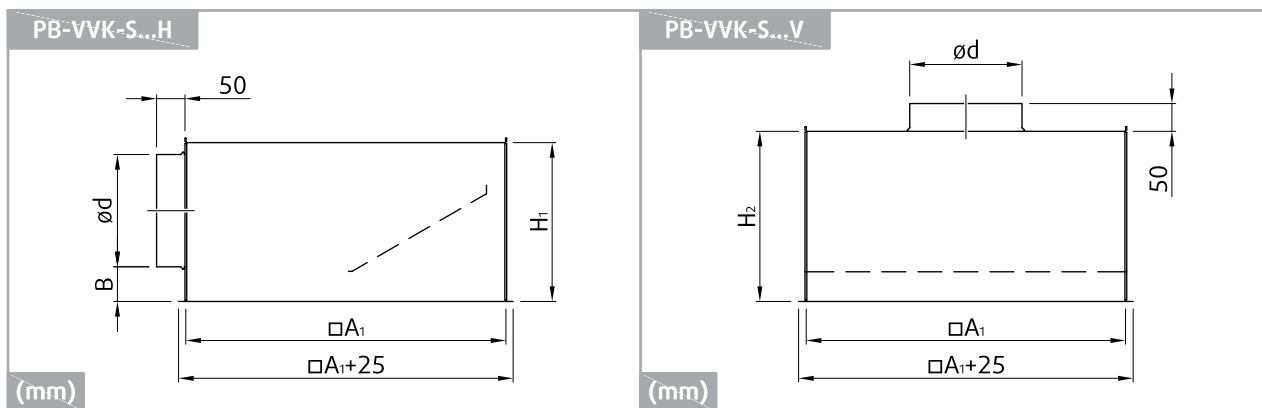
Product Parts



Legend

- P1** Casing (can be equipped by internal/external insulation)
- P2** Duct connection
- D1** Spigot without a seal
- D2** Spigot with a seal including the Zeus damper
- P3** Bendable hanger
- P4** Bridge with a connection to a diffuser
- P5** Mesh screen
- P6** Zeus damper

Dimensions



PB-VVK-S-	$\square A_1$	H_1	H_2	$\varnothing d$	B	m	
		PB-VVK-S...H	PB-VVK-S...V			PB-VVK-S...H	PB-VVK-S...V
	mm						kg
300-160	274	240	200	158	62	2,58	2,39
400-160	366	240	200	158		3,62	3,43
400-200	366	280	200	198		3,98	3,65
500-200	466	280	200	198		5,27	4,74
600-200	566	280	300	198		6,71	7,19
600-250	566	330	300	248		7,42	7,31
625-200	582	280	300	198		7,11	7,63
625-250	582	330	300	248		7,81	7,73
800-315	740	400	300	313	67	13,63	12,03
825-315	774	400	300	313		14,22	12,61

Ordering Codes

Size: Inlet-Outlet

300-160

400-160

400-200

500-200

600-200

600-250

625-200

625-250

800-315

825-315

Mesh screen

S Supply with mesh screen

E Extract without mesh screen

Connection

H Horizontal (from the side)

V Vertical (from the top)

Damper

D1 Untight spigot with damper ¹

D2 Pressed tight spigot with the Zeus damper ¹

Insulation

I2 With internal insulation ²

J With external insulation ²

NOTES:

¹ If the spigot type is not entered in the ordering code, type "D1" will be supplied by default. It is not possible to order the Zeus damper for the product PB-VVK-S with horizontal connection. Plenum boxes with a vertical spigot D2 are supplied without a mesh screen.

² The internal and external insulation also can be applied together. In case the insulation type is not entered in the ordering code, the product PB-VVK-S will be supplied without insulation.

Example of the Ordering Code

PB-VVK-S-300-160-E-H-D1-I2

Square plenum box with nominal size 300 mm, spigot with diameter 160 mm, extract without mesh screen, horizontal connection (from the side), spigot type D1, internal insulation.

Plenum box selection diagram

PB-VVK-S					
	H	V			
	D1	D2	D1	D2	
S		✓	✓	✓	
I2		✓	✓	✓	✓
J		✓	✓	✓	✓

Quick Selection

Air flow volume q_v at different A-weighted sound power levels L_{WA}

Item	25 dB(A)		30 dB(A)		35 dB(A)	
	m ³ /h	l/s	m ³ /h	l/s	m ³ /h	l/s
VVKR-A-S-300-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-300-160-S-H-D1	143	40	172	48	207	57
VVKR-A-S-400-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1	143	40	172	48	207	57
VVKR-A-S-400-16-B-SW + PB-VVK-S-400-200-S-H-D1	229	64	274	76	327	91
VVKR-A-S-400-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1	143	40	172	48	207	57
VVKR-A-S-400-16-B-SW + PB-VVK-S-400-200-S-H-D1	229	64	274	76	327	91
VVKR-A-S-400-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1	143	40	172	48	207	57
VVKR-A-S-400-16-B-SW + PB-VVK-S-400-200-S-H-D1	229	64	274	76	327	91
VVKR-A-S-400-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1	143	40	172	48	207	57
VVKR-A-S-400-16-B-SW + PB-VVK-S-400-200-S-H-D1	229	64	274	76	327	91
VVKR-A-S-500-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1	143	40	172	48	207	57
VVKR-A-S-500-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1	229	64	274	76	327	91
VVKR-A-S-500-24-B-SW + PB-VVK-S-500-200-S-H-D1	277	77	329	91	391	109
VVKR-A-S-500-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1	143	40	172	48	207	57
VVKR-A-S-500-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1	229	64	274	76	327	91
VVKR-A-S-500-24-B-SW + PB-VVK-S-500-200-S-H-D1	277	77	329	91	391	109
VVKR-A-S-500-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1	143	40	172	48	207	57
VVKR-A-S-500-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1	229	64	274	76	327	91
VVKR-A-S-500-24-B-SW + PB-VVK-S-500-200-S-H-D1	277	77	329	91	391	109
VVKR-A-S-500-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1	143	40	172	48	207	57
VVKR-A-S-500-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1	229	64	274	76	327	91
VVKR-A-S-500-24-B-SW + PB-VVK-S-500-200-S-H-D1	277	77	329	91	391	109
VVKR-A-S-600-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	143	40	172	48	207	57

Item	25 dB(A)		30 dB(A)		35 dB(A)	
	m ³ /h	l/s	m ³ /h	l/s	m ³ /h	l/s
VVKR-A-S-600-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	229	64	274	76	327	91
VVKR-A-S-600-24-B-SW + PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	277	77	329	91	391	109
VVKR-A-S-600-24C-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	412	115	504	140	612	170
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-200-S-H-D1	408	113	493	137	592	165
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-250-S-H-D1	391	109	465	129	551	153
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-600-40-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	458	127	545	151	644	179
VVKR-A-S-600-48-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	490	136	577	160	677	188
VVKR-A-S-600-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	143	40	172	48	207	57
VVKR-A-S-600-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	229	64	274	76	327	91
VVKR-A-S-600-24-B-SW + PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	277	77	329	91	391	109
VVKR-A-S-600-24C-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	412	115	504	140	612	170
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-200-S-H-D1	408	113	493	137	592	165
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-250-S-H-D1	391	109	465	129	551	153
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-600-40-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	458	127	545	151	644	179
VVKR-A-S-600-48-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	490	136	577	160	677	188
VVKR-A-S-600-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	143	40	172	48	207	57
VVKR-A-S-600-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	229	64	274	76	327	91
VVKR-A-S-600-24-B-SW + PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	277	77	329	91	391	109

Item	25 dB(A)		30 dB(A)		35 dB(A)	
	m ³ /h	l/s	m ³ /h	l/s	m ³ /h	l/s
VVKR-A-S-600-24C-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	412	115	504	140	612	170
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-200-S-H-D1	408	113	493	137	592	165
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-250-S-H-D1	391	109	465	129	551	153
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-600-40-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	458	127	545	151	644	179
VVKR-A-S-600-48-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	490	136	577	160	677	188
VVKR-A-S-600-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	143	40	172	48	207	57
VVKR-A-S-600-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	229	64	274	76	327	91
VVKR-A-S-600-24-B-SW + PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	277	77	329	91	391	109
VVKR-A-S-600-24C-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	412	115	504	140	612	170
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-200-S-H-D1	408	113	493	137	592	165
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-250-S-H-D1	391	109	465	129	551	153
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-600-40-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	458	127	545	151	644	179
VVKR-A-S-600-48-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	490	136	577	160	677	188
VVKR-A-S-625-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	143	40	172	48	207	57
VVKR-A-S-625-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	229	64	274	76	327	91
VVKR-A-S-625-24-B-SW + PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	277	77	329	91	391	109

Item	25 dB(A)		30 dB(A)		35 dB(A)	
	m ³ /h	l/s	m ³ /h	l/s	m ³ /h	l/s
VVKR-A-S-625-24C-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	412	115	504	140	612	170
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-200-S-H-D1	408	113	493	137	592	165
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-250-S-H-D1	391	109	465	129	551	153
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-200-S-H-D1	408	113	493	137	592	165
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-250-S-H-D1	391	109	465	129	551	153
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-625-40-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	458	127	545	151	644	179
VVKR-A-S-625-48-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	490	136	577	160	677	188
VVKR-A-S-625-54-B-SW + PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	600	167	697	193	806	224
VVKR-A-S-625-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	143	40	172	48	207	57
VVKR-A-S-625-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	229	64	274	76	327	91
VVKR-A-S-625-24-B-SW + PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	277	77	329	91	391	109
VVKR-A-S-625-24C-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	412	115	504	140	612	170
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-200-S-H-D1	408	113	493	137	592	165
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-250-S-H-D1	391	109	465	129	551	153
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-200-S-H-D1	408	113	493	137	592	165
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-250-S-H-D1	391	109	465	129	551	153
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-315-S-H-D1	-	-	-	-	-	-

Item	25 dB(A)		30 dB(A)		35 dB(A)	
	m ³ /h	l/s	m ³ /h	l/s	m ³ /h	l/s
VVKR-A-S-625-40-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	458	127	545	151	644	179
VVKR-A-S-625-48-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	490	136	577	160	677	188
VVKR-A-S-625-54-B-SW + PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	600	167	697	193	806	224
VVKR-A-S-625-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	143	40	172	48	207	57
VVKR-A-S-625-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	229	64	274	76	327	91
VVKR-A-S-625-24-B-SW + PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	277	77	329	91	391	109
VVKR-A-S-625-24C-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	412	115	504	140	612	170
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-200-S-H-D1	408	113	493	137	592	165
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-250-S-H-D1	391	109	465	129	551	153
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-200-S-H-D1	408	113	493	137	592	165
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-250-S-H-D1	391	109	465	129	551	153
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-625-40-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	458	127	545	151	644	179
VVKR-A-S-625-48-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	490	136	577	160	677	188
VVKR-A-S-625-54-B-SW + PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	600	167	697	193	806	224

Item	25 dB(A)		30 dB(A)		35 dB(A)	
	m ³ /h	l/s	m ³ /h	l/s	m ³ /h	l/s
VVKR-A-S-625-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	143	40	172	48	207	57
VVKR-A-S-625-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	229	64	274	76	327	91
VVKR-A-S-625-24-B-SW + PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	277	77	329	91	391	109
VVKR-A-S-625-24C-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	412	115	504	140	612	170
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-200-S-H-D1	408	113	493	137	592	165
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-250-S-H-D1	391	109	465	129	551	153
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-200-S-H-D1	408	113	493	137	592	165
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-250-S-H-D1	391	109	465	129	551	153
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-625-40-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	458	127	545	151	644	179
VVKR-A-S-625-48-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	490	136	577	160	677	188
VVKR-A-S-625-54-B-SW + PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	600	167	697	193	806	224
VVKR-A-S-800-72-B-SW + PB-VVK-S-800-315-S-H-D1 / PB-VVK-S-800-315-S-H-D1 / PB-VVK-S-800-315-S-H-D1 / PB-VVK-S-800-315-S-H-D1	679	189	805	224	949	264
VVKR-A-S-825-80-B-SW + PB-VVK-S-825-315-S-H-D1 / PB-VVK-S-825-315-S-H-D1 / PB-VVK-S-825-315-S-H-D1 / PB-VVK-S-825-315-S-H-D1	679	189	805	224	949	264

NOTE: The working points were measured with open adjustment damper.

Air flow volume q_v at different A-weighted sound pressure levels L_{pA} with 10m² absorption area

Item	20 dB(A)		25 dB(A)		30 dB(A)	
	m ³ /h	l/s	m ³ /h	l/s	m ³ /h	l/s
VVKR-A-S-300-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-300-160-S-H-D1	137	38	166	46	200	55
VVKR-A-S-400-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1	137	38	166	46	200	55
VVKR-A-S-400-16-B-SW + PB-VVK-S-400-200-S-H-D1	221	61	265	74	316	88
VVKR-A-S-400-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1	137	38	166	46	200	55
VVKR-A-S-400-16-B-SW + PB-VVK-S-400-200-S-H-D1	221	61	265	74	316	88
VVKR-A-S-400-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1	137	38	166	46	200	55
VVKR-A-S-400-16-B-SW + PB-VVK-S-400-200-S-H-D1	221	61	265	74	316	88
VVKR-A-S-400-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1	137	38	166	46	200	55
VVKR-A-S-400-16-B-SW + PB-VVK-S-400-200-S-H-D1	221	61	265	74	316	88
VVKR-A-S-500-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1	137	38	166	46	200	55
VVKR-A-S-500-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1	221	61	265	74	316	88
VVKR-A-S-500-24-B-SW + PB-VVK-S-500-200-S-H-D1	267	74	318	88	378	105
VVKR-A-S-500-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1	137	38	166	46	200	55
VVKR-A-S-500-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1	221	61	265	74	316	88
VVKR-A-S-500-24-B-SW + PB-VVK-S-500-200-S-H-D1	267	74	318	88	378	105
VVKR-A-S-500-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1	137	38	166	46	200	55
VVKR-A-S-500-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1	221	61	265	74	316	88
VVKR-A-S-500-24-B-SW + PB-VVK-S-500-200-S-H-D1	267	74	318	88	378	105
VVKR-A-S-600-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	137	38	166	46	200	55
VVKR-A-S-600-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	221	61	265	74	316	88

Item	20 dB(A)		25 dB(A)		30 dB(A)	
	m ³ /h	l/s	m ³ /h	l/s	m ³ /h	l/s
VVKR-A-S-600-24-B-SW + PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	267	74	318	88	378	105
VVKR-A-S-600-24C-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	396	110	484	135	589	164
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-200-S-H-D1	393	109	475	132	571	159
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-250-S-H-D1	377	105	449	125	532	148
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-600-40-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	442	123	527	146	623	173
VVKR-A-S-600-48-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	474	132	559	155	656	182
VVKR-A-S-600-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	137	38	166	46	200	55
VVKR-A-S-600-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	221	61	265	74	316	88
VVKR-A-S-600-24-B-SW + PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	267	74	318	88	378	105
VVKR-A-S-600-24C-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	396	110	484	135	589	164
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-200-S-H-D1	393	109	475	132	571	159
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-250-S-H-D1	377	105	449	125	532	148
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-600-40-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	442	123	527	146	623	173
VVKR-A-S-600-48-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	474	132	559	155	656	182
VVKR-A-S-600-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	137	38	166	46	200	55
VVKR-A-S-600-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	221	61	265	74	316	88
VVKR-A-S-600-24-B-SW + PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	267	74	318	88	378	105
VVKR-A-S-600-24C-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	396	110	484	135	589	164
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-200-S-H-D1	393	109	475	132	571	159

Item	20 dB(A)		25 dB(A)		30 dB(A)	
	m ³ /h	l/s	m ³ /h	l/s	m ³ /h	l/s
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-250-S-H-D1	377	105	449	125	532	148
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-600-40-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	442	123	527	146	623	173
VVKR-A-S-600-48-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	474	132	559	155	656	182
VVKR-A-S-600-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	137	38	166	46	200	55
VVKR-A-S-600-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	221	61	265	74	316	88
VVKR-A-S-600-24-B-SW + PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	267	74	318	88	378	105
VVKR-A-S-600-24C-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	396	110	484	135	589	164
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-200-S-H-D1	393	109	475	132	571	159
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-250-S-H-D1	377	105	449	125	532	148
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-600-40-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	442	123	527	146	623	173
VVKR-A-S-600-48-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1	474	132	559	155	656	182
VVKR-A-S-625-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	137	38	166	46	200	55
VVKR-A-S-625-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	221	61	265	74	316	88
VVKR-A-S-625-24-B-SW + PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	267	74	318	88	378	105
VVKR-A-S-625-24C-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	396	110	484	135	589	164
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-200-S-H-D1	393	109	475	132	571	159

Item	20 dB(A)		25 dB(A)		30 dB(A)	
	m ³ /h	l/s	m ³ /h	l/s	m ³ /h	l/s
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-250-S-H-D1	377	105	449	125	532	148
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-200-S-H-D1	393	109	475	132	571	159
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-250-S-H-D1	377	105	449	125	532	148
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-625-40-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	442	123	527	146	623	173
VVKR-A-S-625-48-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	474	132	559	155	656	182
VVKR-A-S-625-54-B-SW + PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	582	162	676	188	783	217
VVKR-A-S-625-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	137	38	166	46	200	55
VVKR-A-S-625-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	221	61	265	74	316	88
VVKR-A-S-625-24-B-SW + PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	267	74	318	88	378	105
VVKR-A-S-625-24C-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	396	110	484	135	589	164
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-200-S-H-D1	393	109	475	132	571	159
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-250-S-H-D1	377	105	449	125	532	148
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-200-S-H-D1	393	109	475	132	571	159
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-250-S-H-D1	377	105	449	125	532	148
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-625-40-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	442	123	527	146	623	173

Item	20 dB(A)		25 dB(A)		30 dB(A)	
	m ³ /h	l/s	m ³ /h	l/s	m ³ /h	l/s
VVKR-A-S-625-48-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	474	132	559	155	656	182
VVKR-A-S-625-54-B-SW + PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	582	162	676	188	783	217
VVKR-A-S-625-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	137	38	166	46	200	55
VVKR-A-S-625-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	221	61	265	74	316	88
VVKR-A-S-625-24-B-SW + PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	267	74	318	88	378	105
VVKR-A-S-625-24C-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	396	110	484	135	589	164
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-200-S-H-D1	393	109	475	132	571	159
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-250-S-H-D1	377	105	449	125	532	148
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-200-S-H-D1	393	109	475	132	571	159
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-250-S-H-D1	377	105	449	125	532	148
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-625-40-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	442	123	527	146	623	173
VVKR-A-S-625-48-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	474	132	559	155	656	182
VVKR-A-S-625-54-B-SW + PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	582	162	676	188	783	217
VVKR-A-S-625-8-B-SW + PB-VVK-S-300-160-S-H-D1 / PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	137	38	166	46	200	55

Item	20 dB(A)		25 dB(A)		30 dB(A)	
	m ³ /h	l/s	m ³ /h	l/s	m ³ /h	l/s
VVKR-A-S-625-16-B-SW + PB-VVK-S-400-200-S-H-D1 / PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	221	61	265	74	316	88
VVKR-A-S-625-24-B-SW + PB-VVK-S-500-200-S-H-D1 / PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	267	74	318	88	378	105
VVKR-A-S-625-24C-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	396	110	484	135	589	164
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-200-S-H-D1	393	109	475	132	571	159
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-250-S-H-D1	377	105	449	125	532	148
VVKR-A-S-625-32-B-SW + PB-VVK-S-600-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-200-S-H-D1	393	109	475	132	571	159
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-250-S-H-D1	377	105	449	125	532	148
VVKR-A-S-625-32-B-SW + PB-VVK-S-625-315-S-H-D1	-	-	-	-	-	-
VVKR-A-S-625-40-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	442	123	527	146	623	173
VVKR-A-S-625-48-B-SW + PB-VVK-S-600-200-S-H-D1 / PB-VVK-S-600-250-S-H-D1 / PB-VVK-S-600-315-S-H-D1 / PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	474	132	559	155	656	182
VVKR-A-S-625-54-B-SW + PB-VVK-S-625-200-S-H-D1 / PB-VVK-S-625-250-S-H-D1 / PB-VVK-S-625-315-S-H-D1	582	162	676	188	783	217
VVKR-A-S-800-72-B-SW + PB-VVK-S-800-315-S-H-D1 / PB-VVK-S-800-315-S-H-D1 / PB-VVK-S-800-315-S-H-D1 / PB-VVK-S-800-315-S-H-D1	656	182	778	216	918	255
VVKR-A-S-825-80-B-SW + PB-VVK-S-825-315-S-H-D1 / PB-VVK-S-825-315-S-H-D1 / PB-VVK-S-825-315-S-H-D1 / PB-VVK-S-825-315-S-H-D1	656	182	778	216	918	255

NOTE: The working points were measured with open adjustment damper.

Technical Parameters

Legend

$L_{0,2}$ (m) Air throw length with terminal velocity 0,2 m/s

L_x (m) Air throw length calculated for specific terminal velocity

x (m/s) Terminal velocity in range of 0,1 m/s ... 1 m/s

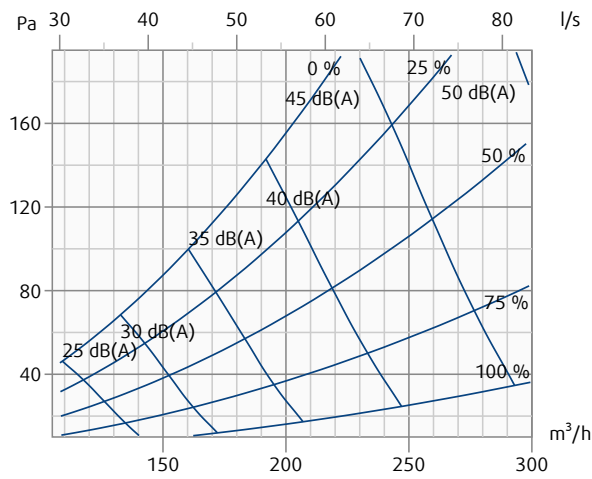
0%, 25%, 50%, 75%, 100% The plenum box damper positions in pressure drop/noise diagrams are represented as percentage. 0% is full damper restriction. 100% is fully open damper.

Calculation of Air Throw for Different Terminal Velocities

$$L_x = L_{0,2} \cdot 0,2/x$$

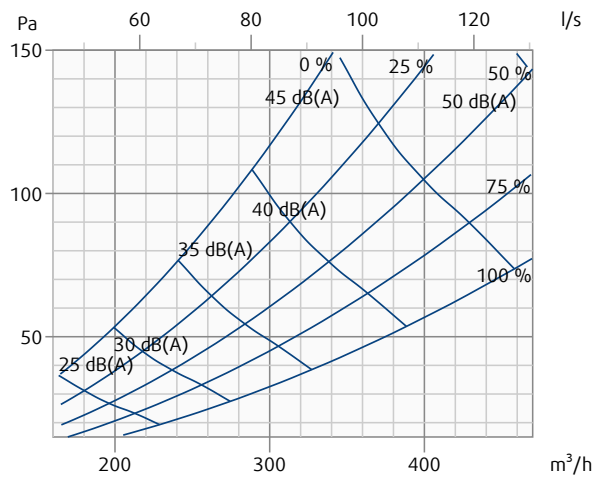
VVKR-A-S-300-8-B-SW + PB-VVK-S-300-160-S-H-D1

Pressure drop & A-weighted sound power level in dB(A)



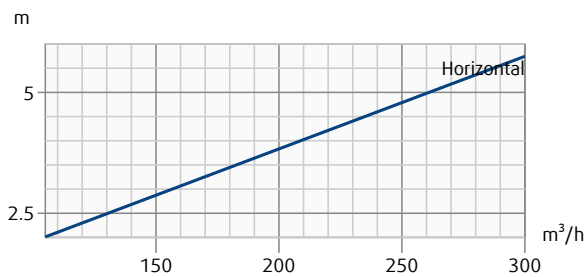
VVKR-A-S-400-16-B-SW + PB-VVK-S-400-200-S-H-D1

Pressure drop & A-weighted sound power level in dB(A)



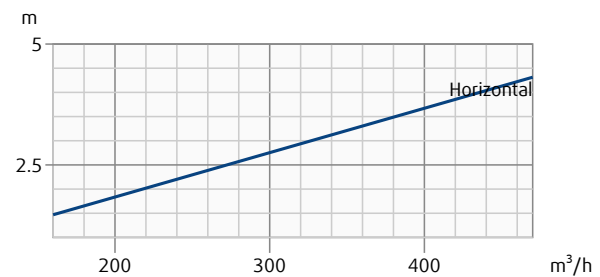
VVKR-A-S-300-8-B-SW + PB-VVK-S-300-160-S-H-D1

Throw length (terminal velocity 0.2 m/s)



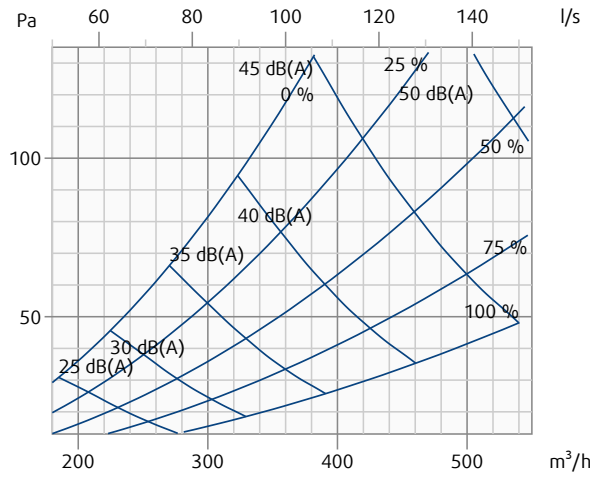
VVKR-A-S-400-16-B-SW + PB-VVK-S-400-200-S-H-D1

Throw length (terminal velocity 0.2 m/s)



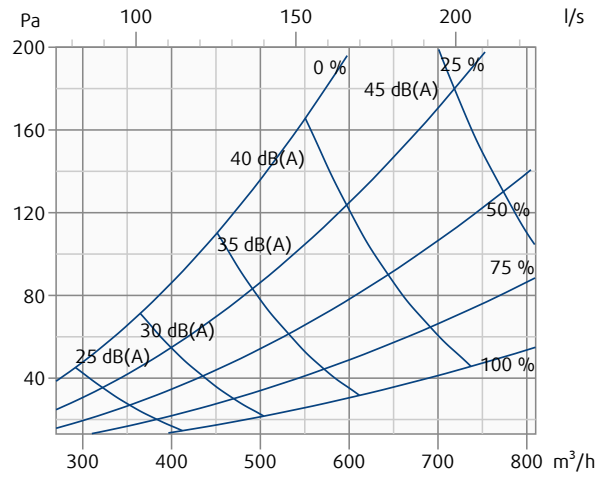
VVKR-A-S-500-24-B-SW + PB-VVK-S-500-200-S-H-D1

Pressure drop & A-weighted sound power level in dB(A)



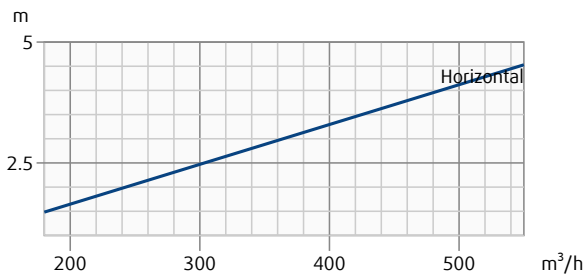
VVKR-A-S-600-24C-B-SW + PB-VVK-S-600-200-S-H-D1

Pressure drop & A-weighted sound power level in dB(A)



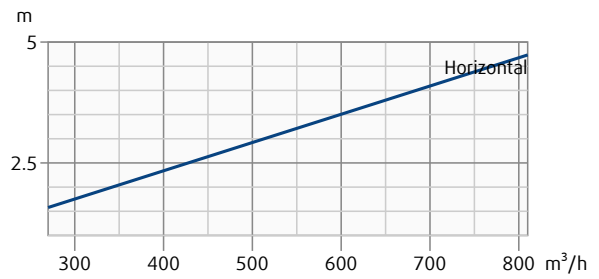
VVKR-A-S-500-24-B-SW + PB-VVK-S-500-200-S-H-D1

Throw length (terminal velocity 0.2 m/s)



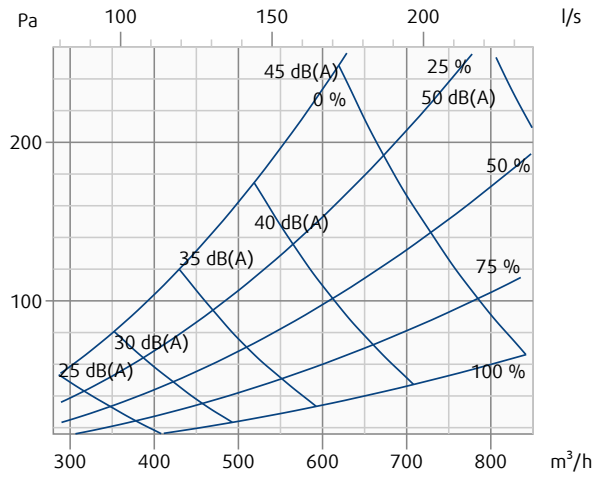
VVKR-A-S-600-24C-B-SW + PB-VVK-S-600-200-S-H-D1

Throw length (terminal velocity 0.2 m/s)



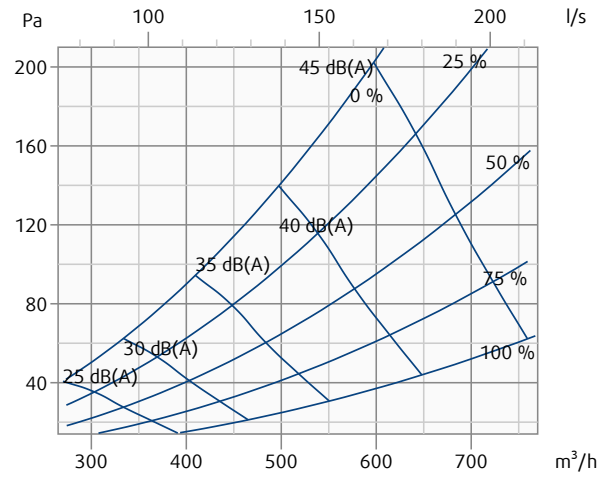
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-200-S-H-D1

Pressure drop & A-weighted sound power level in dB(A)



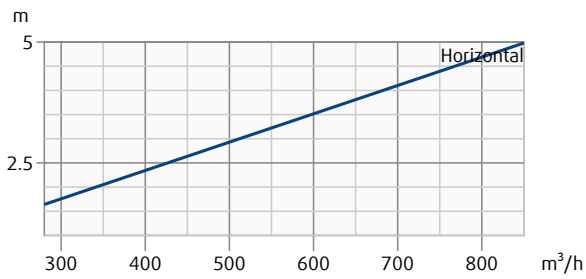
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-250-S-H-D1

Pressure drop & A-weighted sound power level in dB(A)



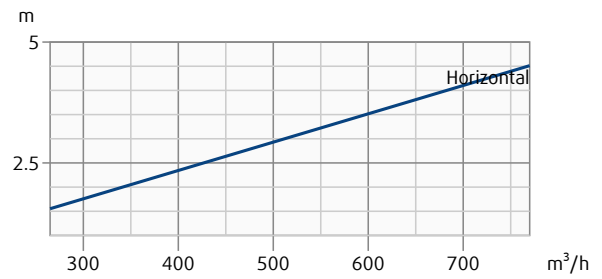
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-200-S-H-D1

Throw length (terminal velocity 0.2 m/s)



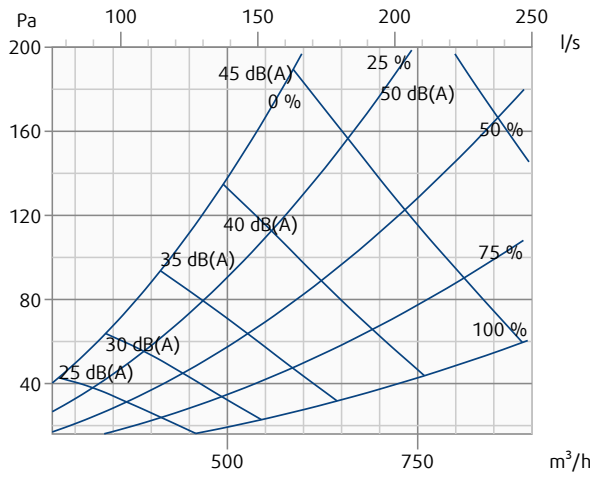
VVKR-A-S-600-32-B-SW + PB-VVK-S-600-250-S-H-D1

Throw length (terminal velocity 0.2 m/s)



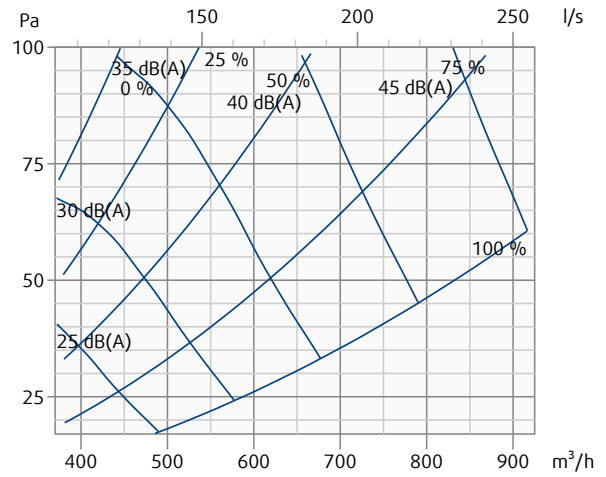
VVKR-A-S-600-40-B-SW + PB-VVK-S-600-200-S-H-D1

Pressure drop & A-weighted sound power level in dB(A)



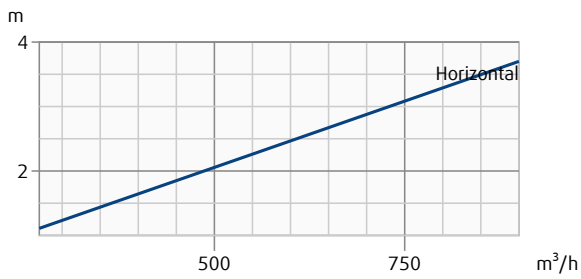
VVKR-A-S-600-48-B-SW + PB-VVK-S-600-200-S-H-D1

Pressure drop & A-weighted sound power level in dB(A)



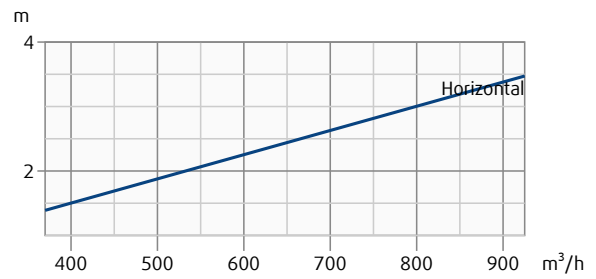
VVKR-A-S-600-40-B-SW + PB-VVK-S-600-200-S-H-D1

Throw length (terminal velocity 0.2 m/s)



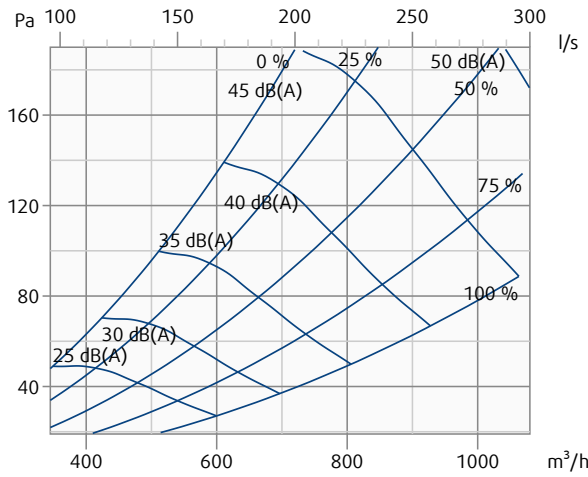
VVKR-A-S-600-48-B-SW + PB-VVK-S-600-200-S-H-D1

Throw length (terminal velocity 0.2 m/s)



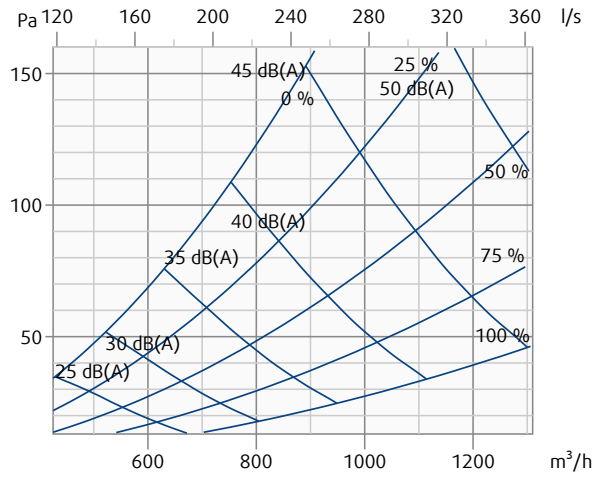
VVKR-A-S-625-54-B-SW + PB-VVK-S-625-200-S-H-D1

Pressure drop & A-weighted sound power level in dB(A)



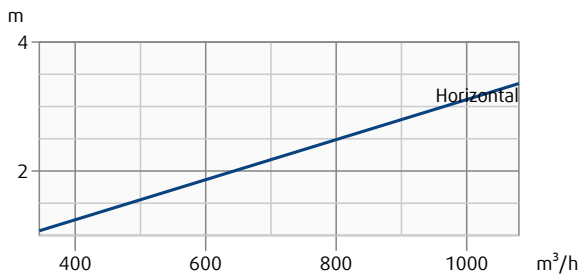
VVKR-A-S-800-72-B-SW + PB-VVK-S-800-315-S-H-D1

Pressure drop & A-weighted sound power level in dB(A)



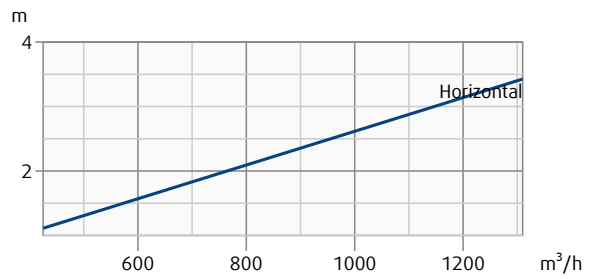
VVKR-A-S-625-54-B-SW + PB-VVK-S-625-200-S-H-D1

Throw length (terminal velocity 0.2 m/s)



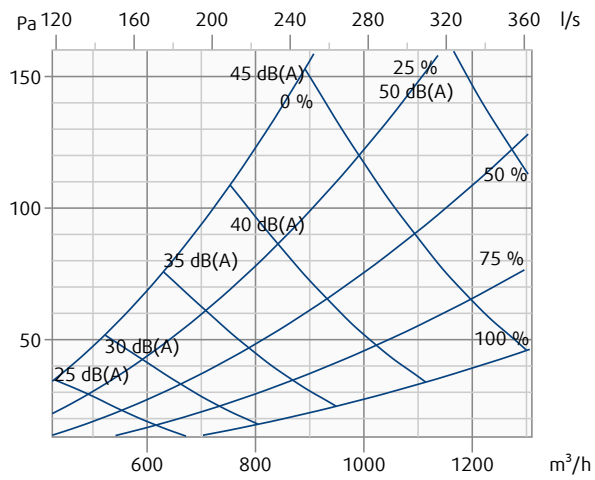
VVKR-A-S-800-72-B-SW + PB-VVK-S-800-315-S-H-D1

Throw length (terminal velocity 0.2 m/s)



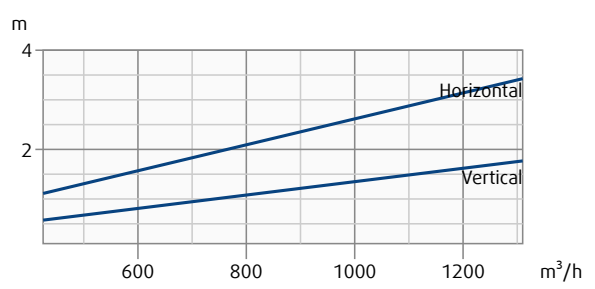
VVKR-A-S-825-80-B-SW + PB-VVK-S-825-315-S-H-D1

Pressure drop & A-weighted sound power level in dB(A)

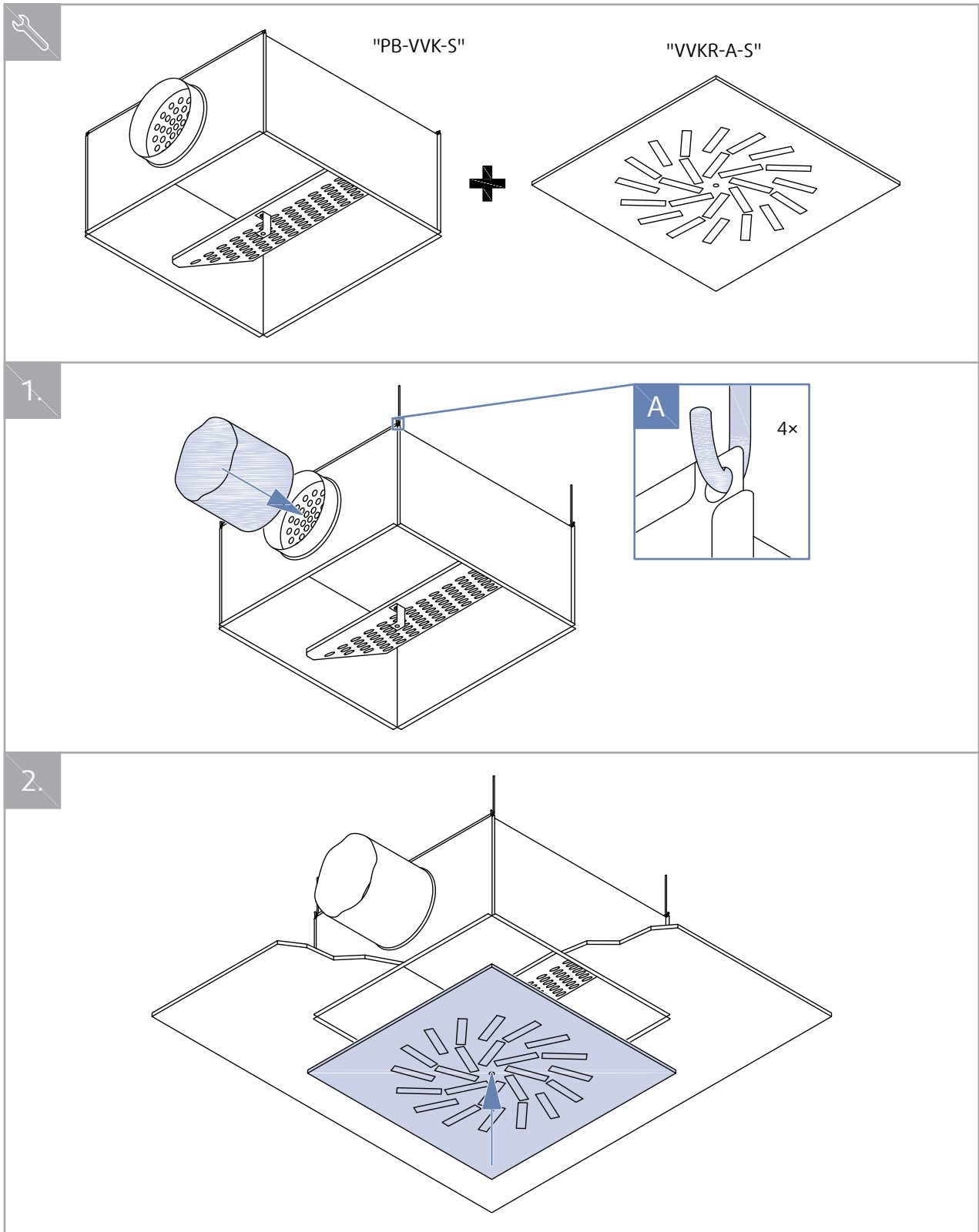


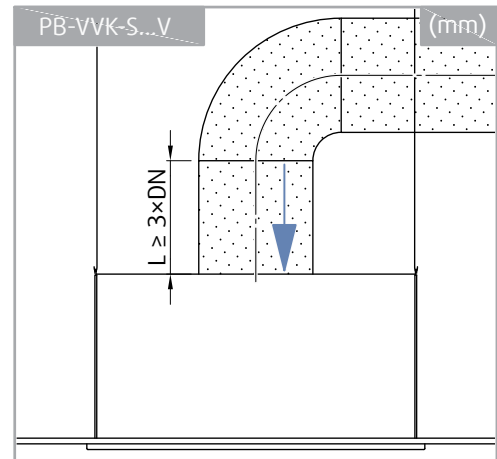
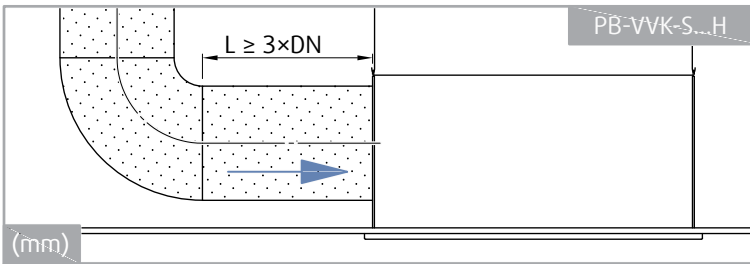
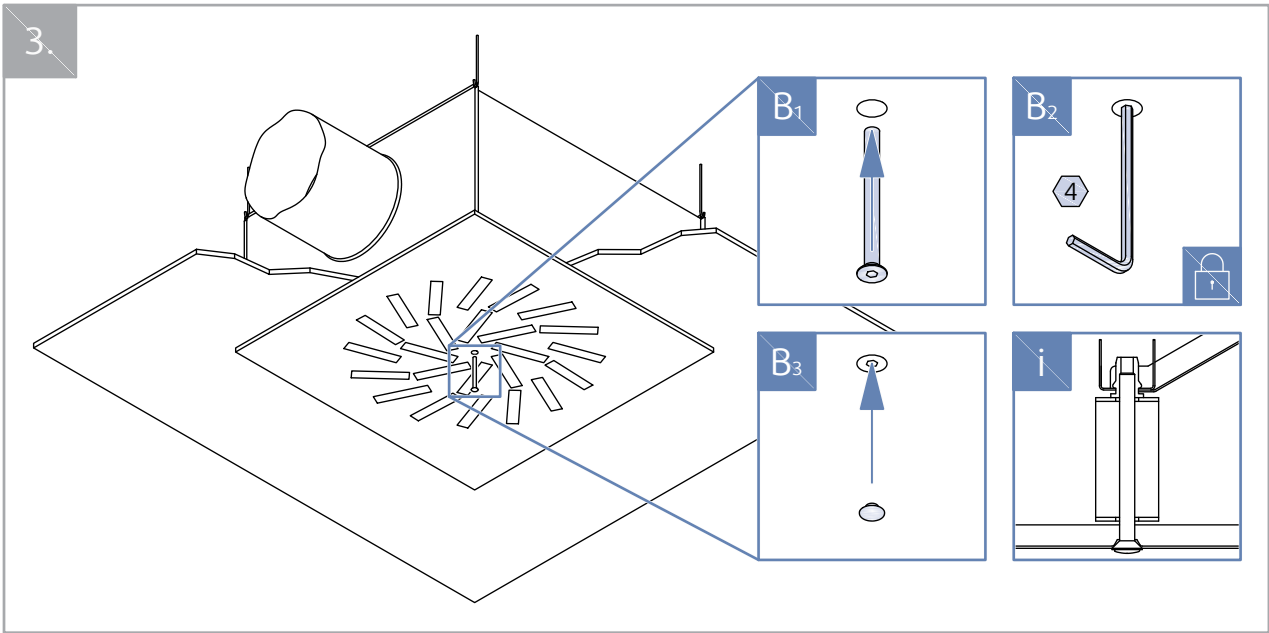
VVKR-A-S-825-80-B-SW + PB-VVK-S-825-315-S-H-D1

Throw length (terminal velocity 0.2 m/s)

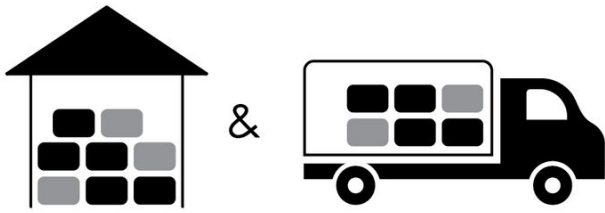



Installation






Transport, Storage and Operation



 °C -40 °C ... +50 °C

 % ≤ 95%



 °C -20 °C ... +50 °C

 % ≤ 95%

Supplement

Any deviations from the technical specifications contained herein and the terms should be discussed with the manufacturer. We reserve the right to make any changes to the product without prior notice, provided that these changes do not affect the quality of the product and the required parameters. Current information on all products is available on design.systemair.com.

